Special Issue

Nitrogen Biogeochemical Cycling in Forest Ecosystems

Message from the Guest Editors

Nitrogen deposition has been rapidly increasing in most regions of the world. Though increased N deposition may alleviate N limitation and increase forest productivity, it usually causes N saturation, soil acidification, nutrient imbalance, biodiversity losses, and so on. Our understanding is not sufficient in terms of monitoring and observation of N deposition into forests, soil N leaching, gaseous N losses, and their responses to N deposition. The aims and scopes of the Special Issue are to present the new observations on N deposition, soil N transformations, and their interactions with cycles of carbon and other elements in forest ecosystems worldwide, in order to enhance the associated understandings. This Special Issue will report N deposition to forests in some under-represented regions and the influences of N deposition on forest N cycling. It has long been a challenge to quantify field gaseous N losses, particularly for N2. We will report the results quantified by 15N tracer techniques. We also explore soil N transformations, using either 15N natural abundance or 15N tracer techniques, and associated microbial composition by gene sequence analysis.

Guest Editors

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Deadline for manuscript submissions

closed (28 November 2023)

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Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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